Section I: AQMD BACT Determinations

Application No.: 363589

Equipment Category - I.C. Engine - Emergency, Compression Ignition

1. GENERAL INFORMATION

DATE: 2/7/2006

A. MANUFACTURER: Caterpillar

B. TYPE: compression ignition

C. MODEL: 3512B SCAC

D. STYLE:

E. APPLICABLE AQMD RULES: exempt from Rule 1110.2

F. COST: $ (NA) SOURCE OF COST DATA:

G. OPERATING SCHEDULE: 1 HRS/DAY 1 DAYS/WK 52 WKS/YR

2. EQUIPMENT INFORMATION

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A. FUNCTION: 2155 brake horsepower engine drives a stand-by electrical generator

B. MAXIMUM HEAT INPUT:

C. MAXIMUM THROUGHPUT: 2155 HP

D. BURNER INFORMATION: NO.: TYPE:

E. PRIMARY FUEL: Diesel

F. OTHER FUEL:

G. OPERATING CONDITIONS:

3. COMPANY INFORMATION

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A. NAME: City of Corona

B. SIC CODE:

C. ADDRESS: 730 Corporation Yard Way
CITY: Corona STATE: CA ZIP: 92880-2002

D. CONTACT PERSON: Marshall L. Racine, Jr.

E. PHONE NO.: 951-736-2478

4. PERMIT INFORMATION

APP. NO.: 363589

A. AGENCY: SCAQMD

B. APPLICATION TYPE: new construction

C. AGENCY CONTACT PERSON: Roy Olivares

D. PHONE NO.: 909-396-2208

E. PERMIT TO CONSTRUCT/OPERATE INFORMATION: P/C NO.: pc/po ISSUANCE DATE: 2/1/2000
☐ CHECK IF NO P/C P/O NO.: F24125 ISSUANCE DATE: 2/1/2000

F. START-UP DATE:

5. EMISSION INFORMATION

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A. PERMIT

A1. PERMIT LIMIT: engine operation < 200 hrs/yr, and fuel sulfur < 0.05% by weight

A2. BACT/LAER DETERMINATION: BACT limits (grams/bhp-hr): NOx = 6.9, CO = 8.5, ROG = 1.0, PM10 = 0.38

A3. BASIS OF THE BACT/LAER DETERMINATION: Ingram Book Company (Ron Persons, 800-937-8222)

5. EMISSION INFORMATION

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B. CONTROL TECHNOLOGY

B1. MANUFACTURER/SUPPLIER: Caterpillar

B2. TYPE: Internal

B3. DESCRIPTION: turbocharged and aftercooled

B4. CONTROL EQUIPMENT PERMIT APPLICATION DATA: P/C NO.: ISSUANCE DATE:
P/O NO.: ISSUANCE DATE:

B5. WASTE AIR FLOW TO CONTROL EQUIPMENT: FLOW RATE:
ACTUAL CONTAMINANT LOADING: BLOWER HP:

B6. WARRANTY:

B7. PRIMARY POLLUTANTS: NOx, CO, PM, SOX, ROG

B8. SECONDARY POLLUTANTS:

B9. SPACE REQUIREMENT:

B10. LIMITATIONS: B11. UNUSED

B12. OPERATING HISTORY:

B13. UNUSED B14. UNUSED

C. CONTROL EQUIPMENT COSTS

C1. CAPITAL COST: ☐ CHECK IF INSTALLATION COST IS INCLUDED IN EQUIPMENT COST
EQUIPMENT: $ INSTALLATION: $ (NA) SOURCE OF COST DATA:

C2. ANNUAL OPERATING COST: $ (NA) SOURCE OF COST DATA:

D. DEMONSTRATION OF COMPLIANCE

D1. STAFF PERMFORMING FIELD EVALUATION:
ENGINEER'S NAME: INSPECTOR'S NAME: DATE:

D2. COMPLIANCE DEMONSTRATION:

D3. VARIANCE: NO. OF VARIANCES: DATES:
CAUSES:

D4. VIOLATION: NO. OF VIOLATIONS: DATES:
CAUSES:

D5. MAINTENANCE REQUIREMENTS: D6. UNUSED

D7. SOURCE TEST/PERFORMANCE DATA RESULTS AND ANALYSIS:
DATE OF SOURCE TEST: CAPTURE EFFICIENCY:
DESTRUCTION EFFICIENCY: OVERALL EFFICIENCY:
SOURCE TEST/PERFORMANCE DATA:
OPERATING CONDITIONS:
TEST METHODS:

6. COMMENTS

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Actual emissions in grams/bhp-hr (as reported by the engine mfr.) are: NOx = 6.2, CO = 1.3, ROG = 0.2, PM10 = 0.3. The test method used was ISO 8178-4, D2 test cycle.

Original date of this listing was 5/25/2000. Listing was revised 2/7/2006 to update company address and contact person.